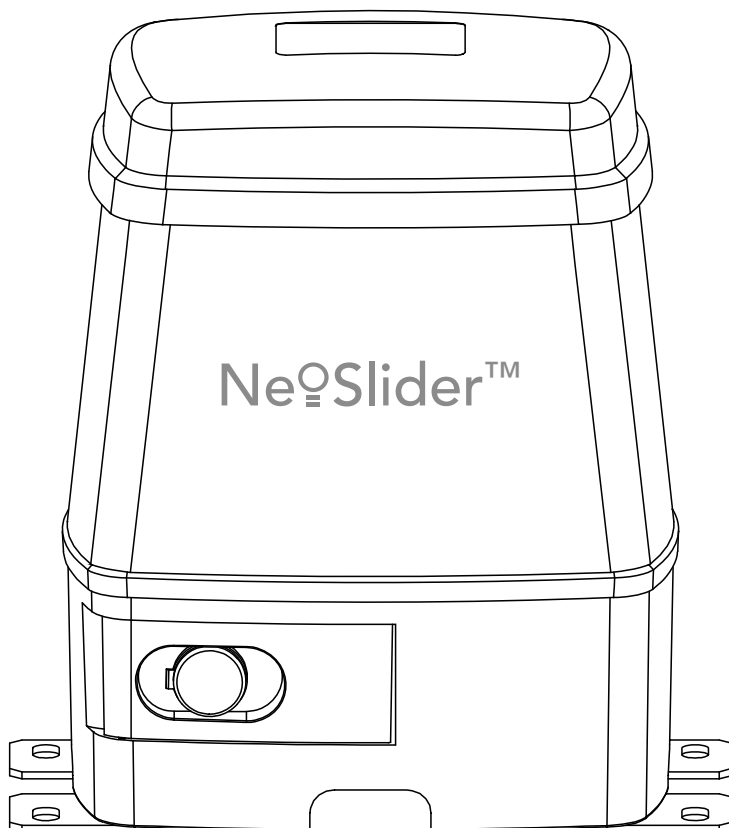




NES-24V1 NeoSlider™

Sliding Gate Opener



Featuring **TrioCode™** Technology

automatic
TECHNOLOGY

smart | simple | secure

Technical Document
Installation Manual
v 1.01
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English
Part # 13311 (Manual)



WARNING: It is vital for the safety of persons to follow all instructions. Failure to comply with the installation instructions and the safety warnings may result in serious personal injury and/or property and remote control opener damage. Please save these instructions for future reference.

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NeoSliderTM

Sliding Gate Opener NES-24V1

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Important Safety Instructions

WARNING: It is vital for the safety of persons to follow all instructions. Failure to comply with the following Safety Instructions may result in serious personal injury and/or property damage.



FOR ADDITIONAL SAFETY protection we strongly recommend the fitting of a Photo Electric (PE) Beam. In most countries, PE Beams are mandatory on all gates fitted with automatic openers. For a small additional outlay, Automatic Technology recommends that Photo Electric Beams be installed with the automatic opener ensuring additional safety and peace of mind.

DO NOT operate the gate opener unless the gate is in full view and free from objects such as cars and children/people. Make sure that the gate has finished moving before entering or leaving the driveway.

DO NOT operate the gate opener when children/people are near the gate. Children must be supervised near the gate at all times when the gate opener is in use. **Serious personal injury** and/or property damage can result from failure to follow this warning.

DO NOT allow children to operate the sliding gate opener. **Serious personal injury** and/or property damage can result from failure to follow this warning.

Make sure that the **Safety Obstruction Force** system is working correctly, and is **tested** every month. Test as per the Installation Instructions Manual. Adjust if necessary and recheck. Failure to follow this rule could result in **serious personal injury** and/or property damage. This test must be repeated at regular intervals and the necessary adjustments made as required.

DO NOT disengage the sliding gate opener to manual operation with children/people or any other objects including motor vehicles within the gateway.

If using a key switch, keypad or any device that can operate the sliding gate opener, make sure it is out of reach of children and that the gateway is in full view at all times.

If the power supply cord is damaged, it **must** be replaced by an Automatic Technology service agent or suitably qualified person.

Make sure that remote transmitters are kept out of reach of children.



Important Safety Instructions

Please read this instruction manual fully before attempting to install or use the opener. Failure to comply with the installation instructions may result in serious injury and/or property damage.

The opener is showerproof - it should not be immersed in water or sprayed directly by a hose or other water carrying device.

The gate(s) must be **well balanced**, and in good working order. Faulty gates must be repaired by a qualified technician prior to opener installation.

Remove or disengage all gate locks and mechanisms prior to installation of the opener.

Connect the gate opener to a properly **earthed** general purpose 240V mains power outlet installed by a qualified electrical contractor.

Disconnect the power cord from mains power before making any repairs or removing covers. Only **experienced** service personnel should remove covers from the gate opener.

Keep hands and loose clothing **clear** of the gate and opener at all times.

When using Auto-Close mode, a **Photo Electric Beam** must be fitted correctly and tested for operation at regular intervals. **Extreme caution** is recommended when using Auto-Close mode. **All safety instructions** above must be followed.

In order for the gate opener to **sense** an object obstructing the gateway, some **force** must be exerted on the object. As a result the object, gate and/or person may suffer **damage** or **injury**.

Make sure that the gate is fully open before driving into or out of the driveway. And make sure the gate is fully closed before leaving the driveway.

The gate opener is not intended for use by young children or infirm persons without adequate supervision. Children should be supervised to ensure that they do not play with the remote transmitters or the opener.

Frequently examine the installation, in particular guides and mountings for signs of wear, damage or imbalance. **DO NOT** use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced gate may cause injury.





Features

Thank you for purchasing the NES-24V1 NeoSlider™ from Automatic Technology. Designed for residential sliding gates by our world renowned team of engineers, this unit will give years of smart, simple and secure operation. Listed below are some of its many features.

Operation

To activate the gate simply press a button on the TrioCode® transmitter, keypad or other optional control devices. During an open or close cycle, the gate can be stopped by pressing the button whilst it is in motion. The next actuation will move the gate in the opposite direction.

Operator Console

The NeoSlider™ features a LCD display operator console which simplifies installation, adjustments and status indication. Features include editing transmitter storage and names, setting parameters, selecting specialised operating modes and performing system diagnostics.

TrioCode™ Code Hopping Technology

Every time a TrioCode™ transmitter is used, a new security code is randomly generated from over 4.29 billion possibilities. This greatly enhances the security of the system and makes "code grabbing" a thing of the past.

These transmitters also overcome interference issues by simultaneously sending a signal over three different frequencies. Even if two of the three signals are jammed, the system will still work.

Security Code Store

The NeoSlider™ Sliding Gate Opener uses revolutionary technology to securely store up to thirty (30) transmitters in its memory with the ability to assign an 11 character name to each.

Installation

The display console on the NeoSlider™ "holds your hand" through the installation and setup process. Also, during installation a handheld transmitter can be used to set gate travel limits, allowing the installer to closely monitor the gate's position and stop points instead of having to be within arms reach of the console.





ISS (Intelligent Safety System)

Should the gate hit an obstacle while it is performing a close cycle, or be restricted in some manner, it will automatically reverse. The amount of force the gate should encounter before reversing is automatically adjusted by the control system during the initialisation of the automatic opener. The gate will also stop if restricted whilst opening. The Safety Obstruction Force should be checked at least once a month. See installation manual for instructions.

Status Indicator

The LCD console display screen indicates through text the status of the NeoSlider™. When the MAIN SCREEN is displayed, the current position of the gate or the result of the last movement can be viewed. The display also shows the countdown timer for Auto-Close operations. Any active input will also be displayed along with the state of various features such as periodic service, battery backup operation and vacation mode.

Control of Lock and Lights

The incorporated controller has dedicated outputs for operating an electric lock and warning or courtesy lights. The timing of these outputs can be adjusted to suit your needs. In addition a button on a remote transmitter can be coded to operate the light output.

Extensive Operating Modes Via Control Inputs And Remote Control

The integrated controller can be configured to operate in many different ways via the seven (7) control and safety inputs which include P.E, OPEN, STOP, CLOSE, OSC, SWIPE and PEDESTRIAN.

Operation is provided with each transmitter's button being able to be configured to operate one of OSC, PEDESTRIAN, SWIPE, CLOSE, OPEN, STOP, LIGHT or VACATION functions.

The functionality of the transmitter is further enhanced by four (4) Auto-Close modes, three (3) PE Beam response modes and two (2) pedestrian response modes.

SmartSolar™ and Battery Backup Compatibility (optional)

The gate opener can be fitted with a SmartSolar™ or Battery Backup kit for operation in the event of a power outage, or where mains power access is not available.

Manual Operation

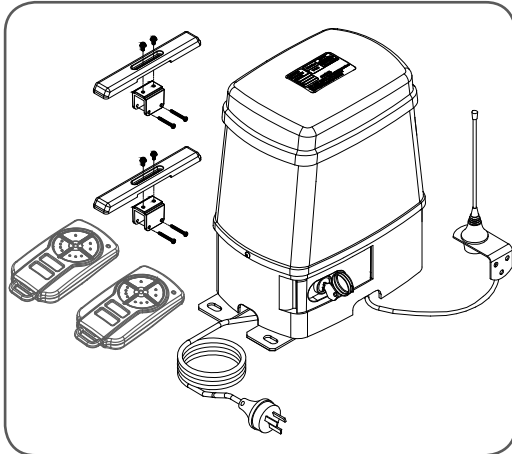
The gate opener is equipped with a unique manual disengaging device. If the power to the gate opener is disrupted for any reason, the gate can be disengaged via a keylock located on the operator, allowing you to manually open or close the gate.





Product Description

fig 01



The Automatic Technology NeoSlider™ sliding gate opener kit consists of one (1) drive unit with integrated controller, two (2) handheld PTX-5 TrioCode® transmitters, a pre-wired antenna ready for mounting on the fence-line and two (2) limits actuators. (**Fig. 01**).

Integrated Controller

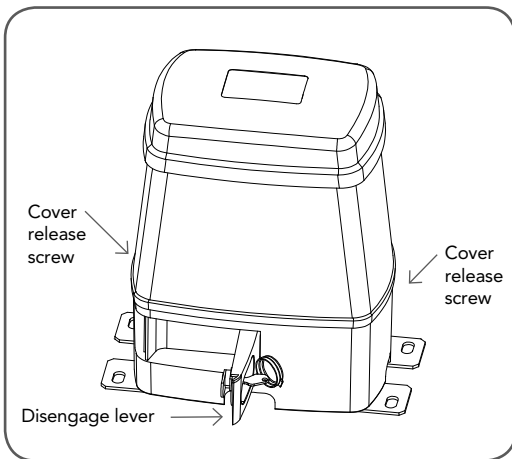
The integrated controller is able to control a single leaf gate. An outdoor type 240V AC power outlet is required to power the system.

Mechanical Drive Unit

The drive unit consists of a powerful 24V DC motor, rugged gearbox and limits assembly combined with a key lockable manual release lever. When installed with suitable cable glands, the NeoSlider™ meets the IP33 standard for preventing ingress of water.

Drive Unit Installation

fig 02



The Automatic Technology NeoSlider™ sliding gate opener is designed to operate most residential sliding gates. The gates must be in good working condition and should operate freely by hand.

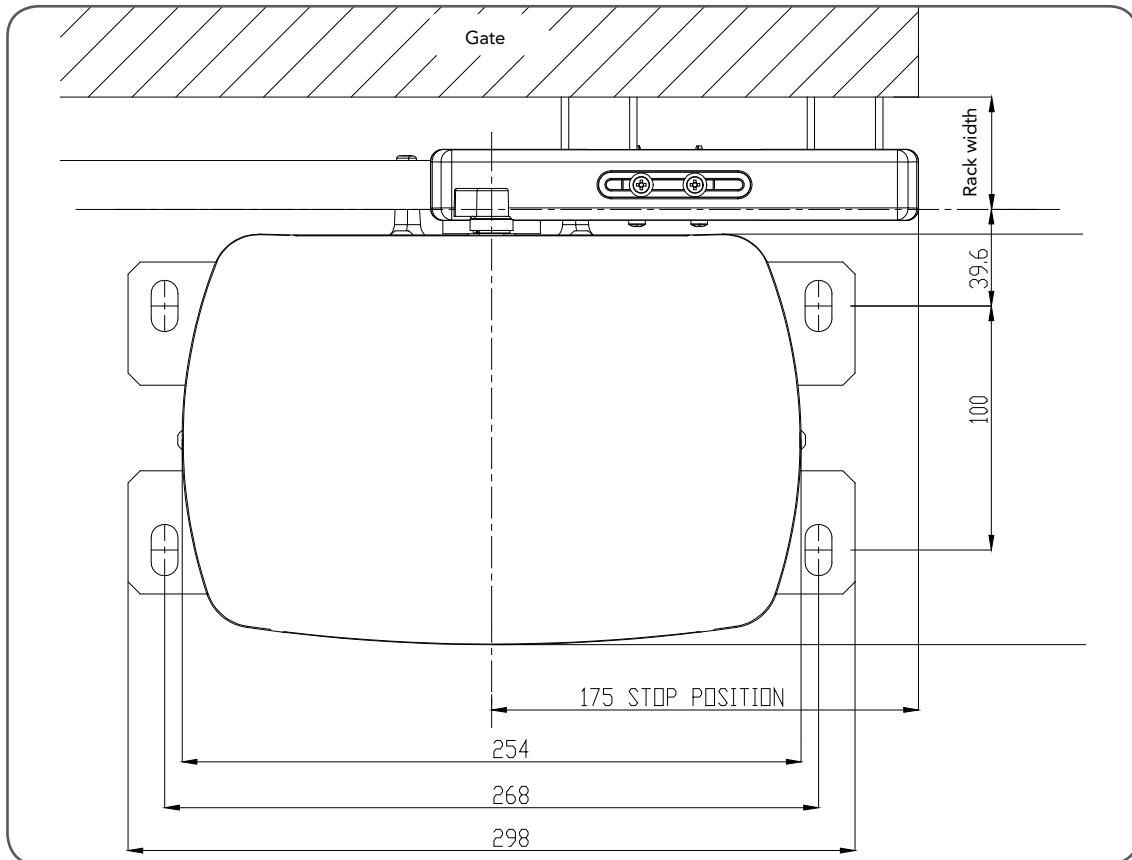
Initial Checking

Before commencing installation of the NeoSlider™, check the following:

1. The gate moves freely and easily by hand for the full opening and closing travel.
2. The mounting point must be solidly constructed, e.g concrete, brick or steel, and must be capable of withstanding the full force applied to the gate.
3. Select a suitable location for mounting the drive unit. This position is usually established by fully opening the gate and mounting the drive unit within a suitable distance of the gate edge.
4. A weather-proof 240v 10 amp power outlet must be located within one (1) metre of the NeoSlider™ mounting point.
5. If PE beams are to be installed, provision for underground cabling should be made from one side of the gateway to the other.



Drive Unit Installation



Mounting the Drive Unit

The NeoSlider™ mounting holes are slotted for fine adjustment of pinion gear and gate rack alignment. Follow the procedure below to ensure final adjustments can be made later.

We recommend that four 8mm ($\frac{5}{16}$ ") or 10mm ($\frac{3}{8}$ ") loxins and bolts are used to secure the Drive Unit into position. These loxins usually require a 16mm ($\frac{5}{8}$ ") masonry drill bit (if drilling concrete).

1. Prior to mounting the NeoSlider™, determine the distance from the gate to the outer edge of the rack (i.e. the rack width) and to the datum line (see **Fig. 03** and **Fig. 04**). If using an Automatic Technology plastic rack, the width is 40mm. If using a different brand of rack, please ensure it is Module 4 and then confirm the width, as this will vary.
2. Mark a line parallel to the face of the gate for the mounting holes. The distance from the gate is determined by the formula (38mm + Rack Width). Therefore, if using an Automatic Technology rack, the distance is 78mm. Otherwise, if using a non-Automatic Technology rack, add your rack width (and spacers if required) to the 38mm (see **Fig. 03**).
3. Another 100mm back, mark another line parallel to that described in point 2 for fixing. (see **Fig. 03**).
4. Open the gate to the desired open position. Mark a line at a right angle to the gate 120-150mm from the open edge of the gate for the mounting holes.
5. Then mark another line 268mm parallel to this line (see **Fig. 03**).
6. Place the Drive Unit in position where the lines intersect to check the mounting position. If satisfied with the position, remove the Drive Unit.
7. Drill the four mounting holes where the lines intersect.
8. Hammer the loxins into position, place the NeoSlider™ and fix with the four bolts. Remember when tightening the bolts to allow fine adjustment of the NeoSlider™ later on.





Rack Installation

fig 04

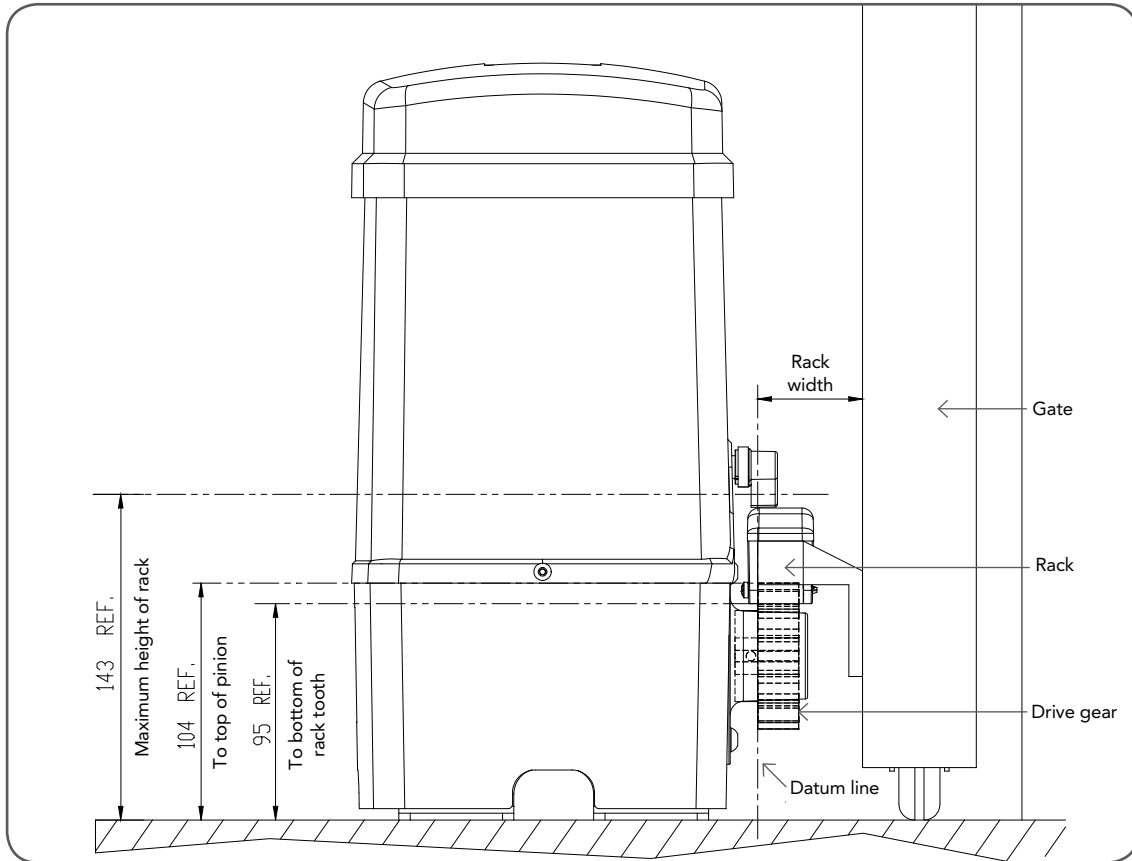
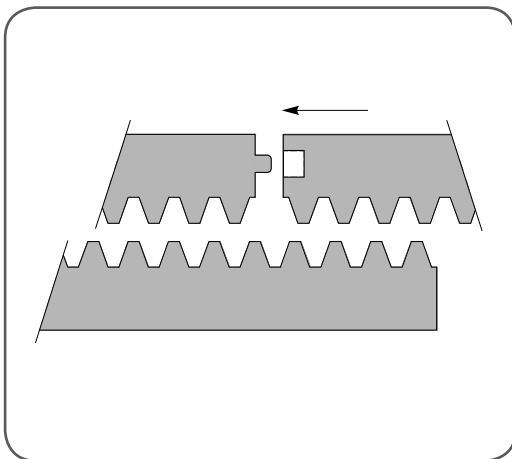


fig 05



Mounting rack to gate

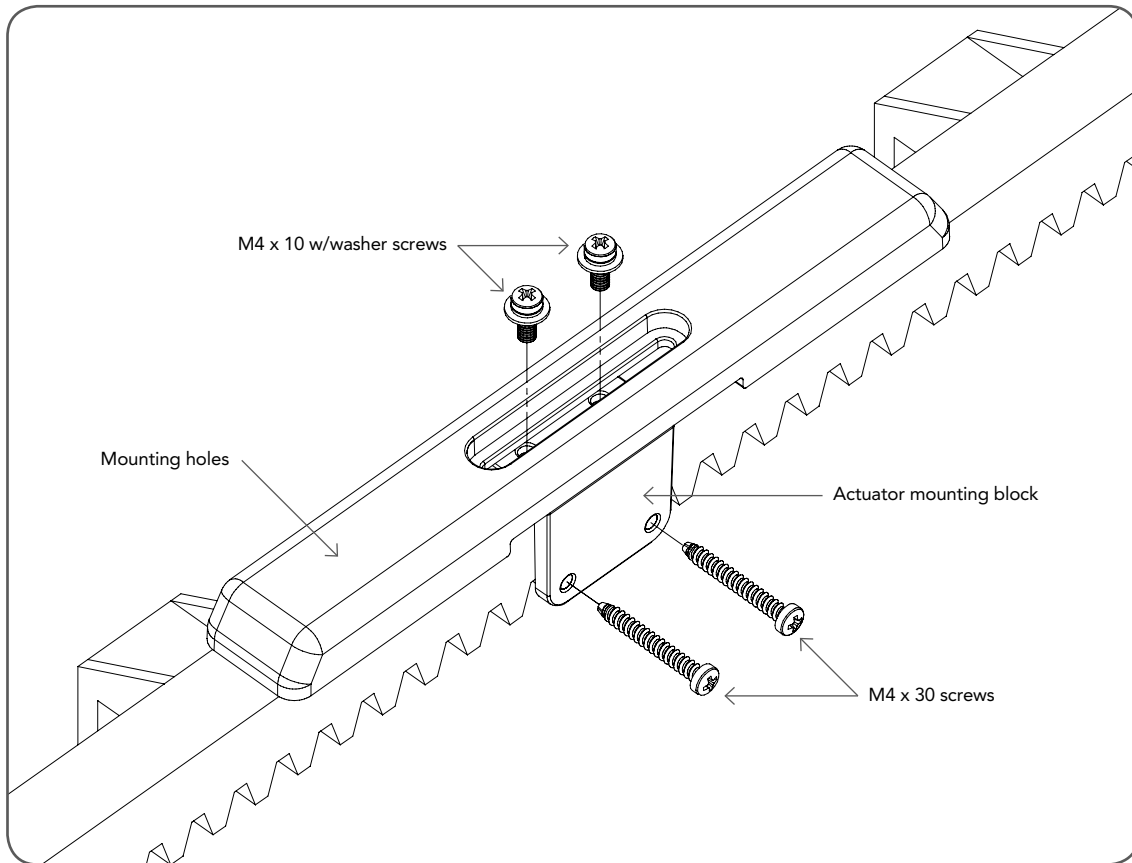
A strong base on the gate is required for mounting the rack.

1. Manually open the gate and place a rack section to mesh with the pinion gear on the Drive Unit. Mark the top of the rack. Move the gate and mark the rack for the entire length of the gate.
2. Position the top edge of the rack on this line and mark the centres of the rack's mounting slots. The first section of rack should start 20mm from the edge of the gate.
3. Drill and tap for 6mm (1/4") screws.
4. Once the first section of the rack is mounted, check that it meshes with the NeoSlider™ pinion gear.
5. When joining subsequent sections of rack, check the mesh by placing a spare section upside down (teeth facing upwards) and putting it into mesh with the racks being joined (**Fig. 05**).
6. Tighten the racks. This will ensure that the NeoSlider™ pinion can run along the racks without obstruction.



Limit Actuators Installation

fig 06



Fixing limit actuator to rack

1. Manually open the gate to the open position and mark this on the gate rack under the actuating arm.
2. Manually close the gate to the closed position and mark this on the gate rack under the actuating arm.
3. Place start of limit actuator at marked position and move it 5 to 10mm towards the centre of the gate. Align the face of the limit actuator with the side of the rack and screw the limit actuator to the rack (**Fig. 06**).
4. Re-check limit positions by manually opening and closing the gate, checking to see that the limit is activated at the desired open and close position. If necessary, make adjustments by sliding the actuator in the required direction. When the final settings are established, tighten the limit actuator screws - **each actuator must be secured with two (2) screws.**





Control Board Layout

- 01 24VDC output for powering accessories 3A(max)
- 02 Light relay driver
- 03 Lock relay driver
- 04 P.E input terminal
- 05 COM terminal for inputs terminals 6 - 11
- 06 OPN N/O input terminal
- 07 STP N/O input terminal
- 08 CLS N/O input terminal
- 09 OSC N/O input terminal
- 10 SWP N/O input terminal
- 11 PED N/O input terminal
- 12 Engage sensor microswitch input
- 13 Console Previous button
- 14 Console Up/Open button
- 15 Console Next button
- 16 Console Exit button
- 17 Console Down/Close button
- 18 Console SET button
- 19 Antenna connector
- 20 Console display
- 21 PG3 programmer connector
- 22 Motor connector
- 23 24VAC input connector
- 24 10 AMP slow blow fuse
- 25 Standby battery charger/solar connector



Control Board Layout

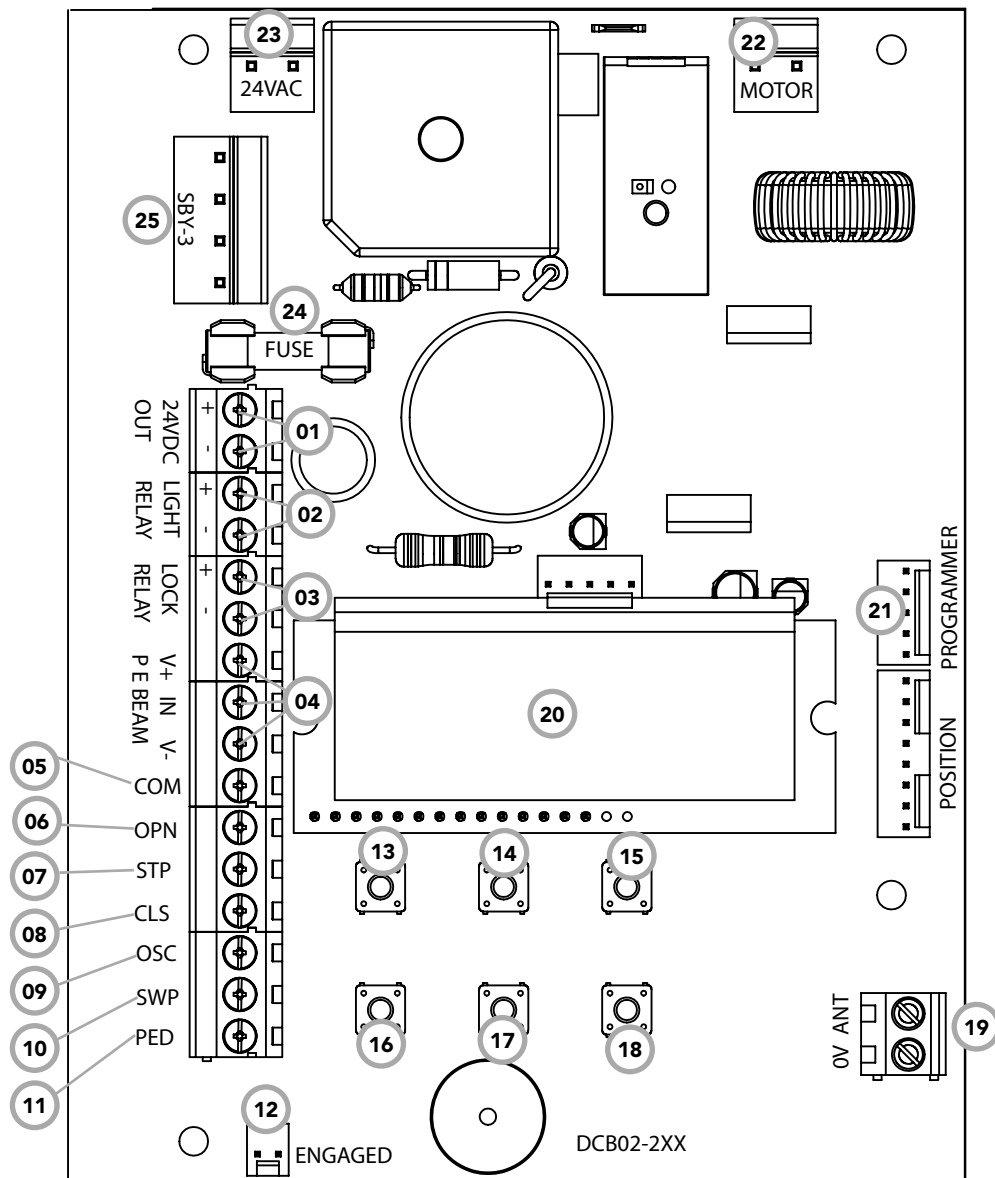
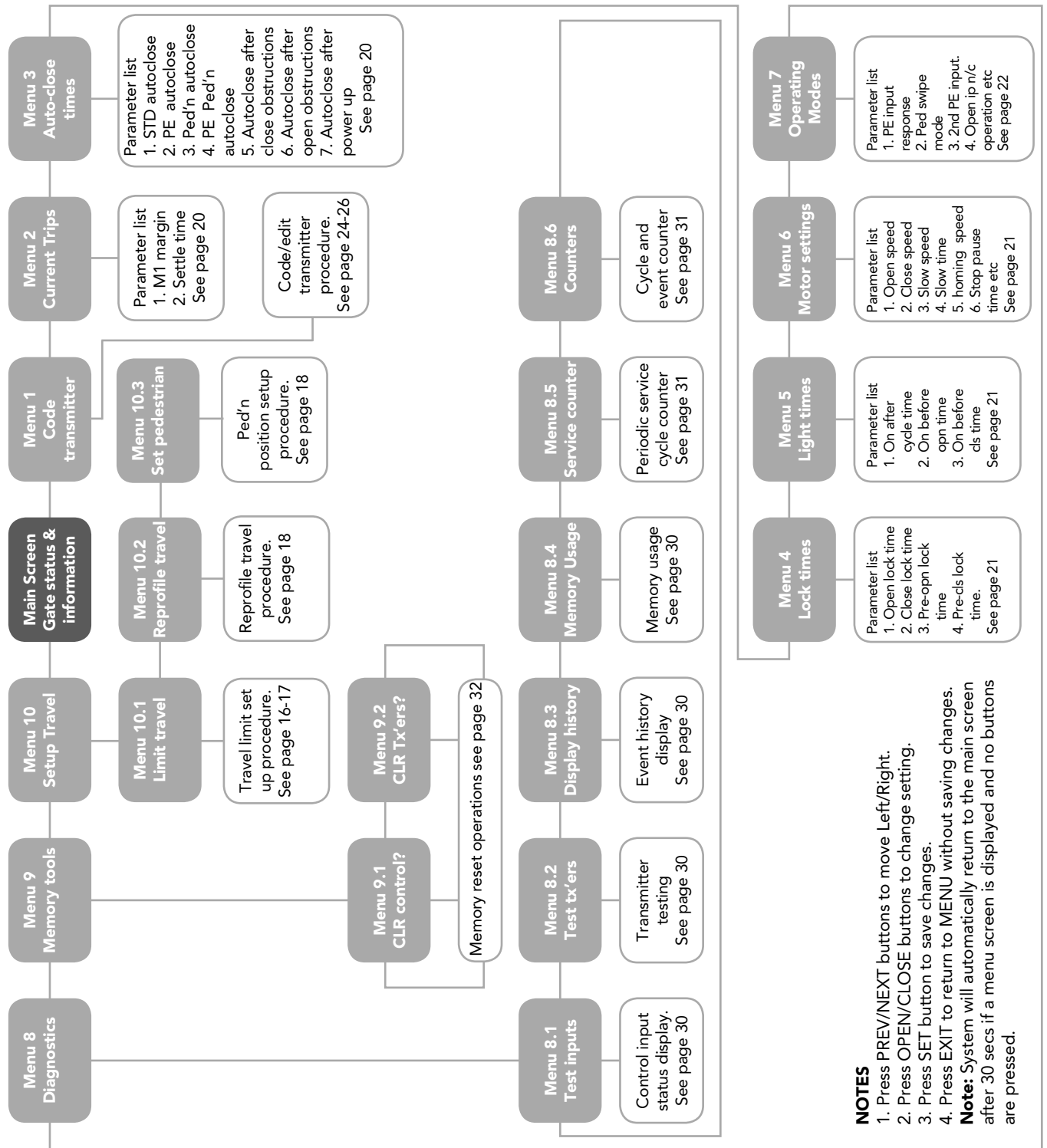


fig 07





Menu Structure



NOTES

1. Press PREV/NEXT buttons to move Left/Right.
 2. Press OPEN/CLOSE buttons to change setting.
 3. Press SET button to save changes.
 4. Press EXIT to return to MENU without saving changes.
- Note:** System will automatically return to the main screen after 30 secs if a menu screen is displayed and no buttons are pressed.





Initial Electrical Installation



CAUTION: Cables which have a green/yellow coloured insulation are for earthing purposes only. Never use these cables for any other purpose.



Warning: A qualified electrician must perform the installation where 240V AC power is used.





Powering Up The Drive Unit

fig 08

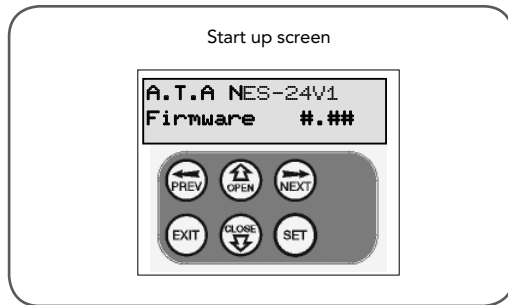
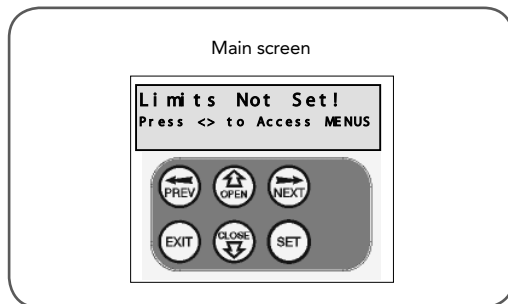


fig 09



Installing antenna

Mount the antenna at or above the height of the gate or fence (whichever is higher) for optimal reception. Do not cut the coaxial cable.

PLEASE NOTE - Before plugging the NeoSlider™ in, check the power cord for damage and ensure it cannot become entangled in any moving parts

After powering up the NeoSlider™, the controller will go through a startup sequence displaying the STARTUP SCREEN (Fig. 08). This indicates the controller type and firmware version.

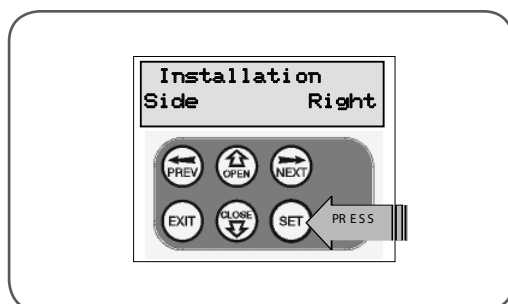
After a short delay the MAIN SCREEN (Fig. 09) will be displayed. If this is the first time the NeoSlider™ has been used, the MAIN SCREEN should indicate that the limits are not set. If the display shows that the gate is disengaged or an input is active, then rectify the situation before continuing with the procedure for setting the travel limits for a single gate.

Setting Travel Limits

fig 10



fig 11



This section shows how to set the travel limits. The procedure can be partly completed using a transmitter. In order to use a transmitter, it must first have at least one of its buttons coded to the gate controller. The function assigned to the transmitter's buttons is of no concern here as the buttons are temporally assigned to OPEN, CLOSE and SET. **NOTE:** The limit setting procedure can be aborted at anytime by pressing EXIT.

NOTE: Gate should be moved manually to fully open position. When re-engaging opener, nudge gate until click is heard to confirm pinion gear has engaged fully.

Step 1. Navigating to "set gate travel menu"

1. Press PREV to navigate to Menu 10 (Fig. 10).
2. Press SET to display MENU 10.1.
3. Press SET again to enter the limit setting procedure.

Step 2. Setting the left/right installation side settings

1. Select left or right installation side by pressing open button for the correct side (Fig. 11).
2. Press SET to confirm.



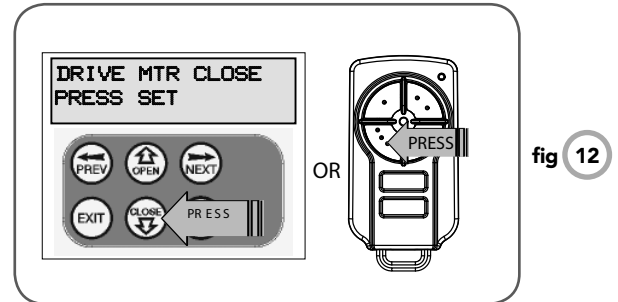


Setting Travel Limits (Cont.)

Step 3. Setting close travel limit

1. Press and hold the CLOSE button (or press button 4 on the transmitter) until the gate reaches the close position, i.e. when the rail-mounted actuator pushes the microswitch to the close position (**Fig. 12**).
2. Press SET to record the CLOSE LIMIT (or press button 2 on transmitter).

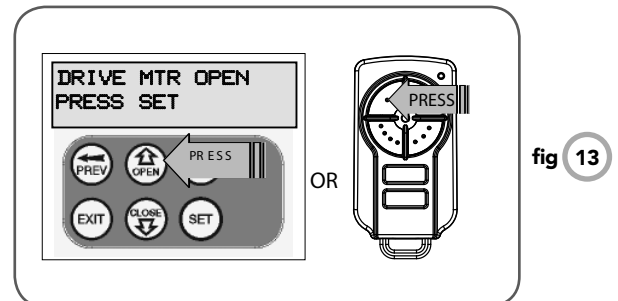
NOTE: Limit will not be accepted unless the gate is driven in the close direction.



Step 4. Setting open travel limit

1. Press and hold the OPEN button (or press button 1 on the transmitter) until the gate reaches the open position, i.e. when the rail-mounted actuator pushes the microswitch to the open position (**Fig. 13**).
2. Press SET to record the OPEN LIMIT (or press button 2 on Transmitter).

NOTE: Limit will not be accepted unless the gate is driven in the open direction.



Automatic limit adjustment and load profile

After a brief pause, the controller will automatically close and open the gate several times. This adjusts the speed at which the limits are approached and helps to learn the normal load profile of the gate. When the setup is complete, the MAIN SCREEN will be displayed with the gate shown to be OPEN. The Gate can now be used.

NOTE: Do not press transmitter during limit adjustment process.

Pedestrian access position

After completing the above procedure, the Pedestrian access position is automatically set to a position which is five (5) seconds from the fully closed position of the gate. The position can be manually set by following the SETTING PEDESTRIAN POSITION procedure.

Errors during setting of travel limit

During the above procedure, many error checks are performed. If an error is detected, a message will be displayed indicating the error.





Reprofile Travel

Recalculate Force Margins

- a. Reprofile is a simplified way of re-learning the travel characteristic of a previously setup Limit Switch travel installation. Re-profiling can be used when the travel characteristics of the gate change due to mechanical adjustments etc. To initiate a re-profile simply locate "MENU 10.3 Reprofile Travel" and press SET then follow the prompts. The gate will start to move and re-calculate force margins. The gate can move between the open and close limit positions up to two (2) times (depending on the position of the gate and the power up condition).
- b. A single beep will be heard once the process is complete and setup complete message will be displayed

Setting Pedestrian Position

fig 14



Note: The pedestrian default position is set at five (5) seconds from fully closed position and can be changed as follows:

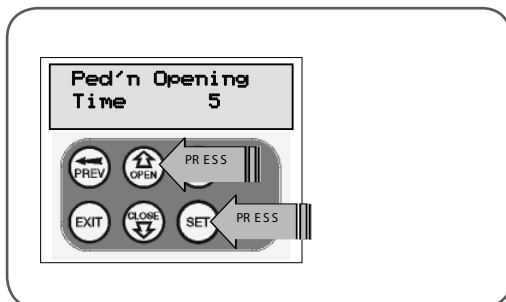
Step 1. Navigating to "set pedestrian menu"

1. Press PREV to navigate to Menu 10 (Fig. 14).
2. Press SET - MENU 10.1 is displayed.
3. Press NEXT to go to MENU 10.3.
4. Press SET to enter Set Pedestrian procedure.

Step 2. Setting pedestrian position

1. Press OPEN to change the pedestrian access position time (Fig. 15).
2. Press SET to record new time

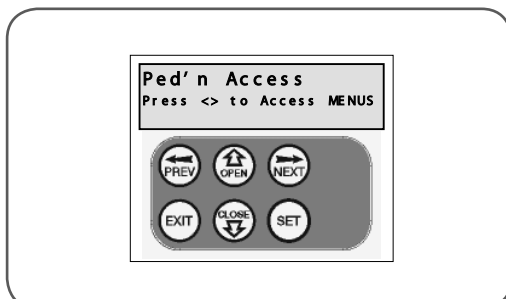
fig 15



Step 3. Pedestrian position set

The controller will return to the MAIN SCREEN with the gate status shown as being in pedestrian access mode (Fig. 16).

fig 16





Standard Operating Modes

This section describes the standard operation of the control board with the factory set default values.

Motor control

The controller drives the motor in the direction determined by the control inputs. Once a cycle is started, the motors will continue to travel until:

1. The controller is instructed to stop by a control input; or;
2. The motor's travel limit is reached; or,
3. The motor is obstructed, overloaded or stalls.

When the control inputs instruct the control board to change the motor direction, the controller brakes the motor, waits for the gate to stop moving and then starts the motor in the opposite direction.

Motor Obstruction Detection

If the gate is obstructed while opening, it will stop. If it is obstructed while closing, gate will stop and then reverse to the open position. Obstruction Detection monitors the motor's speed and compares it to the "normal" speed profile for the motor. If the speed of a motor falls below "normal" then the motor is said to be obstructed. In addition to the normal motor obstruction detection, motor overload and stall detection is provided to protect the gate and opener.

Motor speed control - SOFT START/SOFT STOP

The motor's speed is microprocessor controlled, ramping up speed as the gate starts to move, and ramping down as it approaches the travel limits to provide a gentle stop.

Lock release output

The lock release output is configured to pulse for 0.5 seconds at the start of each cycle. The output is turned on at the same time the motor is activated.

Courtesy light

Courtesy lights can be activated with the addition of a module connected to the control board. Normally used as a safety device to illuminate the area and warn pedestrians, the light will turn on each time the gate is activated (day or night) and automatically turn off one (1) minute after the cycle has finished. The light can also be activated and deactivated by pressing a transmitter button assigned the LGT function.

OPEN/STOP/CLOSE (OSC) input

(Activated by OSC terminal with N/O switch or by transmitter button with OSC function assigned). If the gate is moving, the OSC input will cause the gate to stop. The next trigger will move the gate in the opposite direction to the last travelled.

Pedestrian access (PED) function

(Activated by PED terminal with N/O switch or by transmitter button with PED function assigned). The pedestrian access operation opens the gate partially to allow pedestrian access but prevent vehicle access. The position the gate leaf is driven to is automatically set to five (5) seconds from the closed position during setting of the travel limits, but can be adjusted to suit.

Close (CLS) input

(Activated by CLS terminal with N/O switch, by transmitter button with CLS function assigned or by CLOSE button on console). Activating the CLS input will cause the gate to close. Holding the input active will prevent opening.

Swipe Card (SWP) input

(Activated by SWP terminal with N/O switch or by transmitter button with SWP function assigned). Activating the SWP input will cause the gate to be opened. If the terminal input is held it will prevent the gate from being closed. The swipe input also effects PE TRIGGERED AUTO CLOSE.

Open (OPN) input

(Activated by OPN terminal with N/C switch, by transmitter button with OPN function assigned or by OPEN button on console). Activating the OPN input will cause the gate to open. Holding the input will prevent closing.

Stop (STP) input

(Activated by STP terminal with N/C switch, by transmitter button with STP function assigned or by EXIT button on console). Activating the STP input while the gate is moving will cause the gate to be stopped. If the STP terminal is held it will prevent the gate from being moved.

Photo Electric (PE) safety beam input

(Activated by PE terminal with N/C switch) When the PE input is active, the gate is prevented from being closed. If the PE input is triggered while the gate is closing, the controller will stop the motors and then open the gate. The PE input has no effect while the gate is opening.

Vacation mode

Vacation mode blocks all but one designated remote transmitter from activating the NeoSlider™. The mode is activated by pressing a transmitter button with the VAC function assigned until the console displays that vacation mode is enabled (approx. 5 secs). When activated, any transmitter button which is assigned VAC will be ignored. To turn Vacation mode off, press a transmitter button with the VAC function assigned. Vacation mode can also be turned on or off manually by editing the VACATION MODE parameter.





Control Board Adjustments

The opener's standard operation can be altered by editing various parameters. This section describes the parameters and the effect they have. Use the **VIEWING AND EDITING PARAMETER PROCEDURE** on Page 23 to make changes.

Menu 2. Obstruction margins

The obstruction margins are used to alter the sensitivity of the allowable variation between the "normal" speed profile and the controller to obstructions. Increasing the value increases the actual running speed.

Parameter	Min	Max	Default	Step	Unit	Menu No.
M1 MARGIN Sets obstruction detection margin for M1	0.0	2.0	0.7	0.1	Amps	2

Menu 3. Auto-Close times

The Auto-Close modes automatically closes the gate after it has been operated. To implement this, the controller starts a timer once the gate has reached its desired open position. The timer then counts down and when it expires, the controller starts to close the gate. Details of the four Auto-Close modes are outlined below. Automatic Technology strongly recommend using a PE Beam for added safety.

Standard Auto-Close

This mode is selected by entering a non-zero time for the **STD Auto-Close** parameter. When selected, the gate will auto-close after being fully opened (except when the gate has reversed to the open position after a motor obstruction or overload). Countdown is suspended by: PE, OPN or SWP input being active. The countdown is aborted if the STP input is activated. If the gate is already open and the OPN or the SWP input is activated, then the countdown will start.

PE triggered Auto-Close

This mode is selected by entering a non-zero time for the **"PE Auto-Close"** parameter. This mode is used to auto-close the gate but only after a vehicle have passed through the gateway and triggered the PE input. The swipe input can be used to clear the PE triggered status so that the PE input must be activated again before the countdown will start. As with the other PE modes the STP input will abort countdown and the OPN and SWP inputs will restart the countdown if the gate is OPEN.

Pedestrian access Auto-Close

This mode is selected by entering a non-zero time for the **"Ped'n A/C"** parameter. When selected, the gate will auto-close after being opened for pedestrian access unless it was following a reverse from an obstruction.

PE triggered pedestrian Auto-Close

This mode is selected by entering a non-zero time for the **"PE Ped'n A/C"** parameter. This mode is the same as the PE triggered auto-close mode but it only operates during pedestrian access. As the SWP input is not available during pedestrian access, the PED input can be configured to act in a SWP mode by setting the **"PED I/P = PED SWIPE MODE"** parameter to **ON**.

Auto-Close after obstruction

Two parameters are provided to enable the auto-close feature to be activated after obstructions. Normally the auto-close feature is not enabled after obstructions for safety reasons. PE beams must be used for these features to be activated.

Parameter	Min	Max	Default	Step	Unit	Menu No.
STD AUTOCLOSE TIME Sets and enables the standard auto-close time	0.0	300.0	0.0	1.0	Sec	3
PE AUTOCLOSE TIME Sets and enables the PE triggered auto-close time	0.0	60.0	0.0	1.0	Sec	3
PEDESTRIAN AUTOCLOSE TIME Sets and enables the Pedestrian auto-close time	0.0	60.0	0.0	1.0	Sec	3
PE PEDESTRIAN AUTOCLOSE TIME Sets and enables the PE Pedestrian auto-close time	0.0	60.0	0.0	1.0	Sec	3
AUTOCLOSE AFTER CLOSE OBSTRUCTION Enables auto-close feature after close obstructions	Off	On	Off			3
AUTOCLOSE AFTER OPEN OBSTRUCTION Enables auto-close feature after open obstructions	Off	On	Off			3



Control Board Adjustments

Menu 4. Lock times

Lock output can be programmed for both hold and pulse motor starting. The operation of the lock can be programmed to activate prior to the gate and behave differently on open and close cycles.

Parameter	Min	Max	Default	Step	Unit	Menu No.
OPEN LOCK TIME Set the time the lock is activated for on open cycles	0.0	Hold	0.5	0.1	Sec	4
CLOSE LOCK TIME Set the time the lock is activated for on close cycles	0.0	Hold	0.5	0.1	Sec	4
PRE-OPEN LOCK TIME Time the lock is activated for prior to opening	0.0	25.5	0.0	0.1	Sec	4
PRE-CLOSE LOCK TIME Time the lock is activated for prior to closing	0.0	25.5	0.0	0.1	Sec	4

Menu 5. Light times

With the addition of a relay module connected to the control board, a light can be activated for a period prior to the start and end of a drive cycle. The light is used to warn surrounding persons that the gate is about to be activated.

Parameter	Min	Max	Default	Step	Unit	Menu No.
ON AFTER CYCLE LIGHT TIME Time light remains on for after a cycle	0	255	60	1	Sec	5
ON BEFORE OPEN CYCLE LIGHT TIME Minimum time light is activated for prior to opening	0	255	0	1	Sec	5
ON BEFORE CLOSE CYCLE LIGHT TIME Minimum time light is activated for prior to closing	0	255	0	1	Sec	5

Menu 6. Motor settings

Motor speed

The maximum speed the motors run at is controlled by the MOTOR FULL SPEED VOLTAGE parameter. The default value is the maximum recommended for normal operation. If however the gates move too quickly for a particular installation, the voltage can be reduced to make the motors run slower. **NOTE: Altering these parameters will cause the travel limits to be cleared.**

Parameter	Min	Max	Default	Step	Unit	Menu No.
OPEN SPEED VOLTAGE Sets the full motor speed voltage in open direction	12.0	24	22	1	Volts	6.1
CLOSE SPEED VOLTAGE Sets the full motor speed voltage in close direction	12.0	24	22	1	Volts	6.2
SLOW SPEED Sets the motor speed voltage in soft stop cycle	6	24	8	1	Volts	6.3
SLOW TIME Sets the time for soft stop cycle	0.1	10.0	3.0	0.1	Sec	6.4
HOMING SPEED Sets the motor speed for first cycle after power failure	12	24	12	1	Volts	6.5





Control Board Adjustments

Menu 7. Operating modes

PE input response mode

The PE input can be configured to respond in one of three modes:

1. Open and close cycles stop

In this mode all cycles are prevented from being completed or initiated when the PE input is active.

2. Close cycles stop

In this mode the PE input has no effect when opening, but will stop the gate when closing.

3. Reverses close cycles

In this mode the PE input has no effect when opening, but will cause the gate to reverse if activated when closing.

PED input function

The PED input can be configured to a SWIPE type input for pedestrian access. This provides full functionality with the PE Triggered Pedestrian Auto-Close function.

Remote code

The controller supports the Remote Code Set feature. This parameter can be used to disable the feature for security or transmitter management reasons.

Activity reports

This parameter enables activity report outputs. Contact Automatic Technology for more details.

Activity report ID

This parameter sets the ID of the controller that is sent with the activity report. Contact Automatic Technology for more details.

Vacation mode

Vacation mode can be turned on or off using this parameter.

Battery/Solar mode

The controller can be instructed to turn off the battery backup facilities so that the control board can be shut down without having to disconnect the battery backup system.

Password protection

The password feature enables all parameters and configuration settings to be protected unless a password is entered. When this feature is turned on, the user is requested to enter the desired password to be used. The password protection feature has a time-out that expires after 60 seconds of inactivity. Alternatively the user may log out manually by pressing exit when the main screen is displayed.

Open input polarity

The OPN input is normally configured for N/O operation. This parameter allows its operation to be changed to N/C.

Parameter	Min	Max	Default	Step	Unit	Menu No.
PE INPUT RESPONSE MODE Sets the PE response mode. Options are OPEN and CLOSE cycles stop, Close cycles stop or Close cycle reverse	OPN & CLS stop CLS to stop CLS to reverse		CLS to reverse			7
PED INPUT = SWIPE MODE Selects PED input functions as pedestrian access swipe input	Off	On	Off			7
REMOTE CODE ENABLED Selects remote transmitter coding function	Off	On	On			7
ACTIVITY REPORTS Select report to be output	Off	255	Off	1		7
ACTIVITY REPORT ID Selects ID for controller, sent with activity report	0	65535	0	1		7
VACATION MODE Selects vacation mode - disables remote control	Off	On	Off			7
BATTERY/SOLAR MODE Selects Battery Backup/Solar operation	Off	On	On			7
PASSWORD Selects password protection for all changes	Off	On	Off			7
OPN INPUT N/C OPERATION Selects operating polarity of OPN input	Off	On	Off			7



Viewing And Editing Parameters

This section illustrates how to locate, view and adjust parameters.

Locating parameters

Refer to MENU STRUCTURE on Page 14 or the preceding section for CONTROL BOARD ADJUSTMENTS. Locate the required parameter and note the MENU number. The example used in (Fig. 17) displays "CLOSE LOCK TIME"

Changing setting

1. Press NEXT/PREV to navigate to the required menu.
2. Press SET to show sub-menu.
3. Press NEXT/PREV to go to required sub-menu.
4. Press SET to enter edit mode.
5. Press UP/DOWN to change parameter setting.
Holding the button down causes the parameter's value to change rapidly. The longer the button is held, the faster the value changes.
6. Press SET to SAVE setting.

Reload default setting

1. Press NEXT/PREV buttons to display LOAD DEFAULT screen.
2. Press SET to load the default value.

Return to menu

If the parameter's value is not to be changed, press EXIT to return to sub menu. Press EXIT again to return to the MAIN SCREEN.

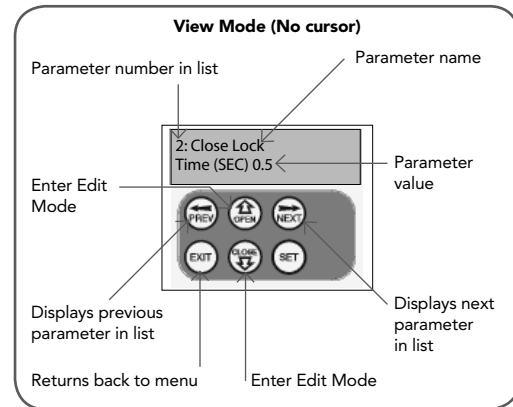


fig 17

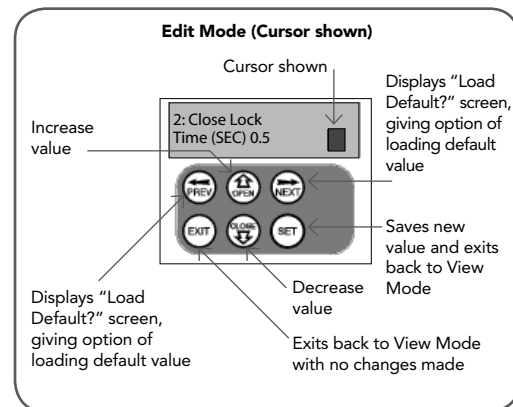
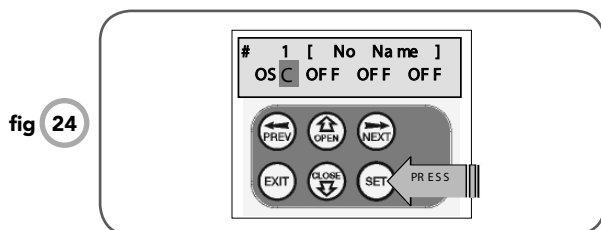
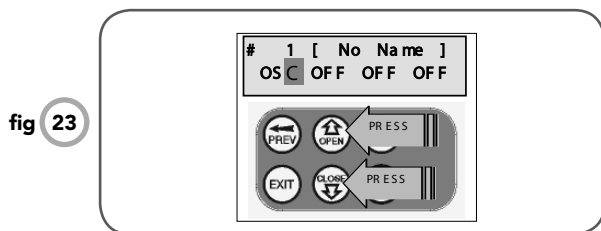
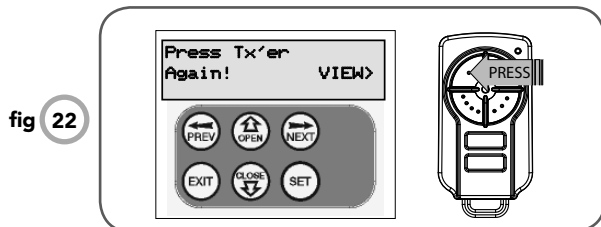
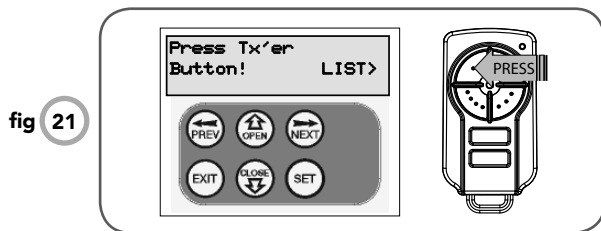
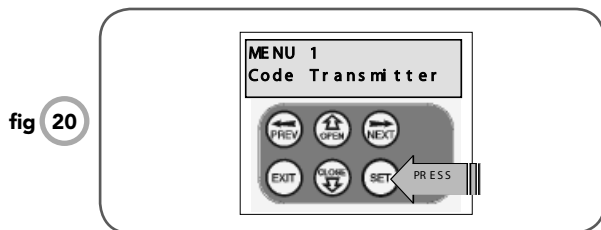
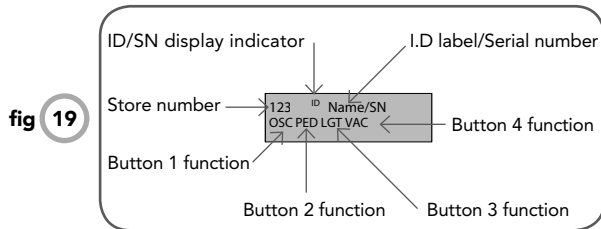


fig 18





Coding Transmitter



The NeoSlider™ can store up to thirty (30) transmitters in its memory. Each transmitter can be allocated an alpha-numeric ID label up to eleven (11) characters in length and each button can be assigned to one of several control functions. The settings for a transmitter are represented in (Fig. 19). It shows the transmitter's store number, ID label or serial number and the functions assigned to each of its four buttons. To toggle between ID/SN display, press UP/DOWN with the cursor on the ID/SN indicator. The procedures below allow you to code, delete, replace, edit and copy transmitter records.

BRAND OF TRANSMITTERS

The first memory location sets the type of transmitters which can be stored into the memory of the receiver. It either can be Automatic Technology TrioCode™ or B&D Tri-Tran™ transmitters. For example, if first transmitter stored is TrioCode™ then the rest of the transmitters can only be the TrioCode™ type and mixing of TrioCode™, Tri-Tran™ is not possible. The deletion of all stored transmitter codes from the receivers memory will allow you to choose either TrioCode™ or Tri-Tran™ transmitters again.

Coding transmitter button

Step 1. Navigating to "code transmitter" menu

1. Press NEXT to navigate to the Menu 1 (Fig. 20).
2. Press SET to enter code set procedure.

Step 2. Storing transmitter code

1. Controller will prompt to press one of the transmitter's buttons.
2. Press the transmitter button you wish to use to operate the Gate Opener (e.g. button 1) (Fig. 21).
3. Press same transmitter button again as prompted by display (Fig. 22).

Step 3. Selecting function of the button

The controller will now show the transmitter's record, with a cursor on the field for the button being coded (Fig. 23). Use UP/DOWN to select the function for the button.

Available functions:

- VAC (Vacation Mode)
- LGT (Courtesy Light)
- STP (Stop)
- OPN (Open)
- CLS (Close)
- SWP (Swipe)
- PED (Pedestrian access)
- OSC (Open/Stop/Close)
- OFF (No action)

Press SET to save the settings or EXIT to abort without saving (Fig. 24).





Coding Transmitter

Returning to main screen

The "Code Transmitter" menu will now be shown. Press EXIT to return to the MAIN SCREEN and test the transmitter.

NOTE: To edit the other settings, refer to Transmitter editing.

Transmitter editing

Display transmitter record

Using one of the methods below, display the required transmitters details.

Step 1. Navigating to "edit transmitter" menu

1. Press NEXT to navigate to the Menu 1 (Fig. 20).
2. Press SET to enter the transmitter edit procedure.
3. Press NEXT to enter transmitter list and edit mode.

Step 2. Editing button function field

1. Press NEXT or PREV to move the cursor to the left or right and between the top and bottom lines to select the desired field.
2. Press UP or DOWN to change the displayed value (Fig. 25). The available functions are shown below. Selecting OFF will prevent the opener responding to that button.

Available functions

VAC (Vacation Mode)	LGT (Courtesy Light)
STP (Stop)	OPN (Open)
CLS (Close)	SWP (Swipe)
PED (Pedestrian access)	OSC (Open/Stop/Close)
OFF (No action)	

3. Press SET to save changes or press NEXT or PREV to move to next field. The example in (Fig. 25) shows that PED is assigned to the transmitter button 2. The transmitter in the example is transmitter number 12 which has the ID label AB Smith.

NOTE: If all button functions are set to OFF, when SET is pressed, the opener will prompt to confirm if the transmitter is to be deleted. Press SET to delete or EXIT to continue editing.

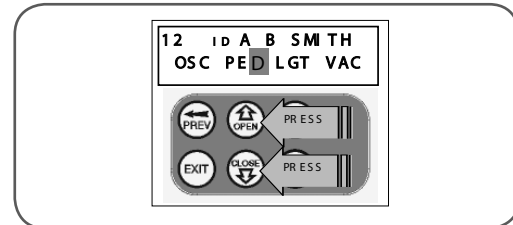


fig 25

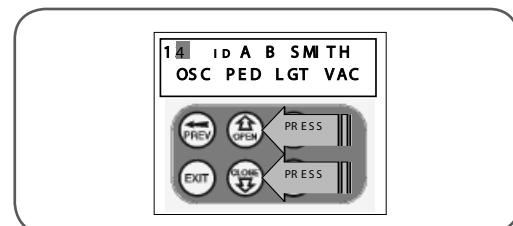


fig 26

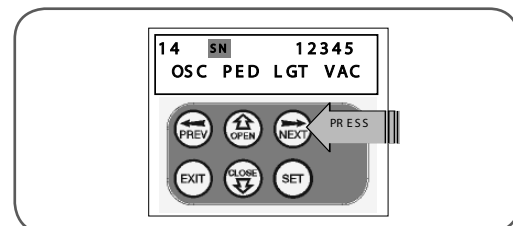


fig 27

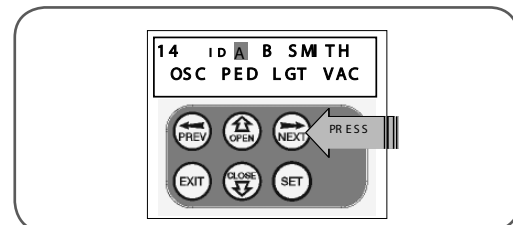


fig 28





Coding Transmitter

fig 29

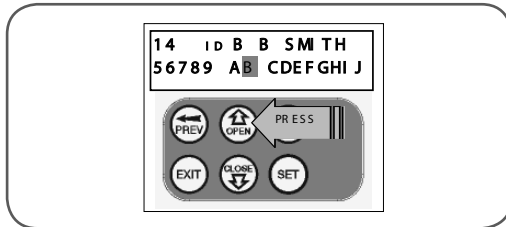
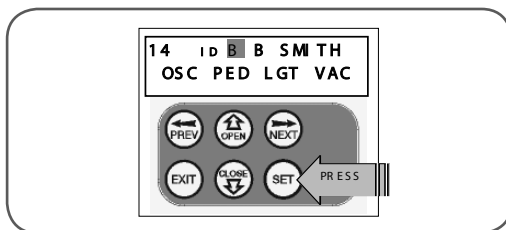


fig 30



Step 3. Editing the store location

This feature is only available when coding the first button of a new transmitter.

1. Press NEXT or PREV to move cursor over Store No.
2. Press UP or DOWN to select new Store No (**Fig. 26**).
3. Press SET to confirm or NEXT/PREV to move to the next field.

This is useful when managing transmitters using a scheme which ties the store location to the transmitter's owner.

Step 4. Selection of ID or Serial Number display

1. Press NEXT/PREV to move cursor over ID field.
2. Press NEXT to reveal Serial Number (**Fig. 27**).

The serial number display is provided for additional means of identification. The transmitter in this example has serial number 12345.

Step 5. Editing a character field

1. Press NEXT or PREV to move select character to change (**Fig. 28**).
2. Press UP or DOWN to scroll through and select new character (**Fig. 29**).
3. Press NEXT or PREV to move to next character.
4. Repeat step 2.
5. Press SET to record changes (**Fig. 30**).

The second line of the display shows a list of available characters with the current value indicated at the cursor position.



Transmitter Management

The NeoSlider™ provides a transmitter listing facility which enables the user to find a transmitter location within the memory. Once located, a stored transmitter can be replaced, deleted, edited, copied or, if the location is empty, a new transmitter can be coded.

Method 1 - Go to the start of the list

Step 1. Accessing the list menu

1. Press NEXT to navigate to Menu 1 (Fig. 31).
2. Press SET to enter the transmitter edit procedure.
3. Press NEXT to enter transmitter list and edit mode (Fig. 32). The display will change as shown in (Fig. 33). This method is used if the transmitter is not available.

Method 2 - Use transmitter to go direct to list

Step 1. Accessing the list menu

1. Press NEXT to navigate to Menu 1 (Fig. 34).
2. Press SET to enter the transmitter edit procedure.
3. Press transmitter once (Fig. 35).
4. Press NEXT to view transmitter parameters (Fig. 36).
Used for quick navigation if the transmitter is available.

NOTE: "VIEW>" will not be shown if the transmitter is not stored.

Once the list is displayed, it can be sorted by stored number, ID Label or Serial Number. Use NEXT or PREV button to select sorting method (Fig. 37).

NOTE: When sorting by ID label or S/N, only stored transmitters locations are displayed.

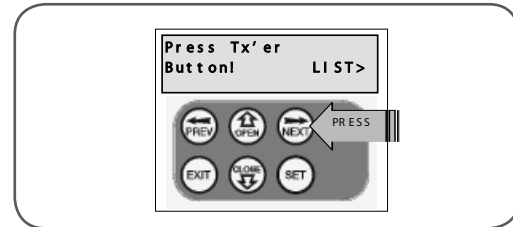


fig 32

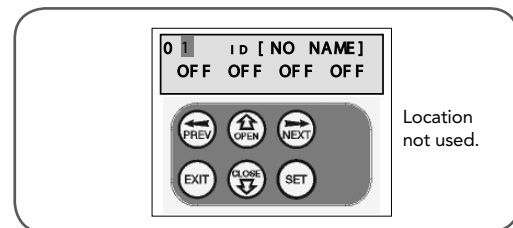


fig 33

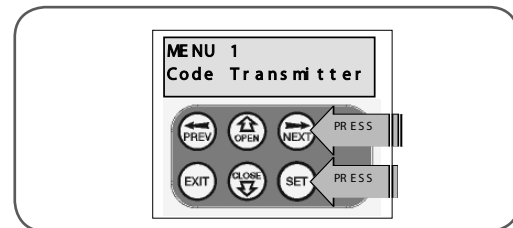


fig 34

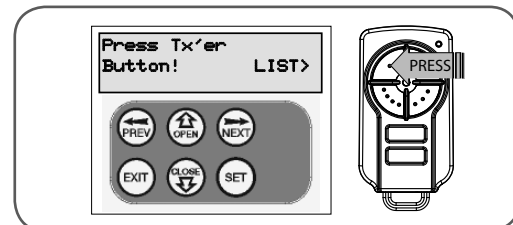


fig 35

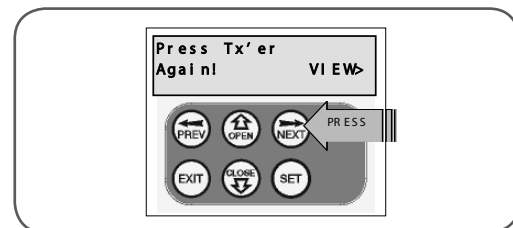


fig 36

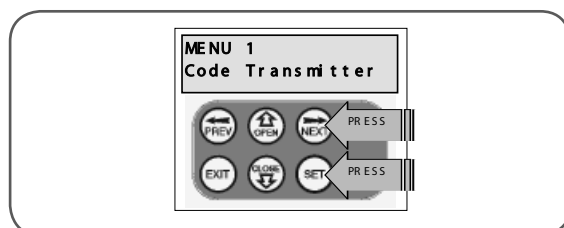


fig 31

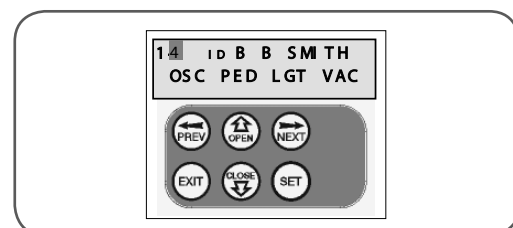


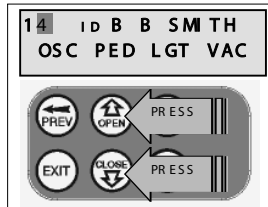
fig 37





Transmitter Management

fig 38



Step 2. Navigating the list

1. Press UP or DOWN buttons to navigate through the list (**Fig. 38**).
2. Press SET to display menu of available functions.

NOTE: Holding a button down will step through the list faster.

Selecting an operation

Press NEXT or PREV to cycle through the four menu options (**Fig. 39-42**). Press EXIT to return to the list. Press SET to execute the menu's operation.

Code operation (location empty)

If the code operation is selected on an empty transmitter location, the BASIC CODE TRANSMITTER PROCEDURE will be initiated with the transmitter being saved in the selected location. This is useful when managing transmitters using a scheme which ties the store location to the transmitter's owner.

Code operation (location used)

If the code operation is selected for a location that already contains a transmitter, then the BASIC CODE TRANSMITTER PROCEDURE will be initiated and the new transmitter will replace the existing one. Note that the button functions and name of the existing transmitter will be transferred to the new transmitter. This procedure is of great convenience when replacing a lost transmitter.

Delete operation

The delete operation is used to remove a transmitter from memory along with the name and button function settings.

Edit operation

The edit operation displays the transmitter record for editing purposes. See TRANSMITTER EDIT PROCEDURE for details.

Copy operation

The copy operation is used to code multiple transmitters with the same button function as that of the selected transmitter. Once selected an abbreviated code set routine is initiated which repeats steps 2 & 3 of the BASIC CODE TRANSMITTER PROCEDURE for each transmitter to be coded. Coding is terminated by pressing the EXIT button.

Exiting the list

To exit the transmitter list, simply press EXIT to return to the code transmitter menu.

fig 39

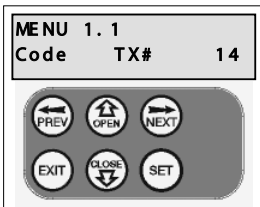


fig 40

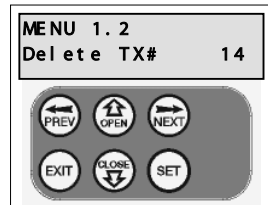


fig 41

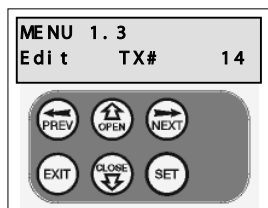
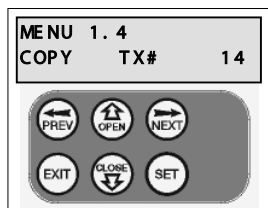


fig 42





Remote Code Set Procedure

If a transmitter is already coded into the opener, additional transmitters can be coded without being in direct contact with the gate opener.

NOTE: Only the function of the existing transmitter button can be assigned to a new transmitter. Please read instructions prior to proceeding - there is a time-out facility for security reasons.

1. Selecting the function to be coded

Using the existing transmitter, operate the gate with the transmitter button which has the function to be coded (**Fig. 43**) (e.g. Button 1 has been coded with the OSC function assigned).

2. Wait for gate to complete cycle

If the button's function activates the gate (PED, SWP, OSC, CLS, STP or OPN) wait for the gate to complete the cycle.

3. Activate remote code set mode

Using a small pin, press and hold through the Coding Hole of the existing transmitter for two seconds (**Fig. 44**).

4. Code new transmitter button

Within 10 seconds, press the button on the new transmitter you wish to code for 2 seconds (**Fig. 45**).

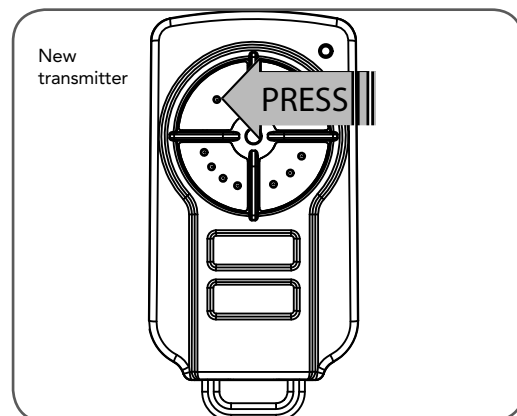
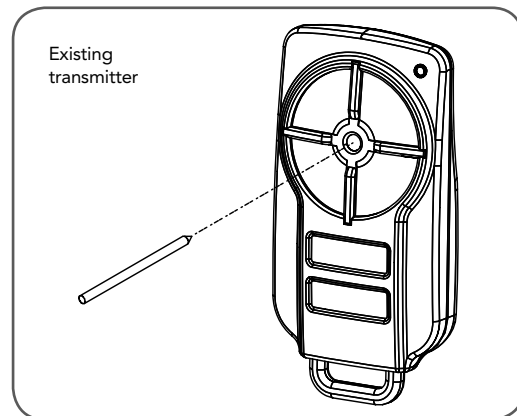
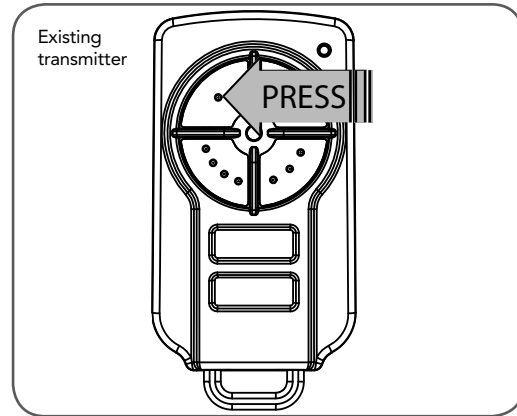
5. Confirm transmitter button to be coded

Press the same button again (within 10 seconds) for confirmation.

6. Test operation

The new transmitter button should now function the same as the existing transmitter.

NOTE: When a transmitter is remote coded, its ID label is set to that of the existing transmitter. If the existing transmitter does not have an ID label assigned, then the ID label of the new transmitter is set to: R/C Tx ###, where ### is the existing transmitters store number. This ensures that the originator of any remote coded transmitter can be identified.





Diagnostic Tools

fig 46

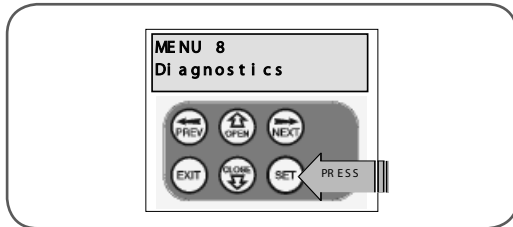


fig 47

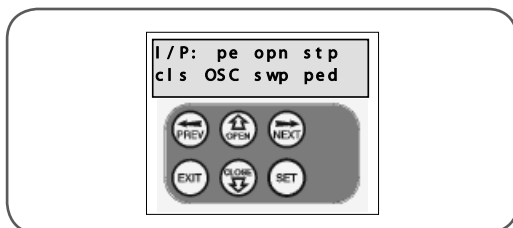


fig 48

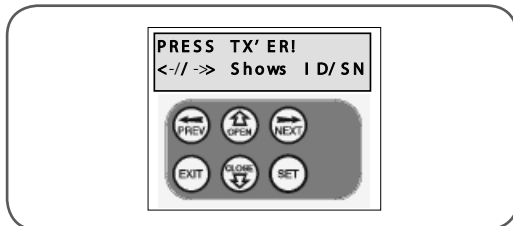


fig 49

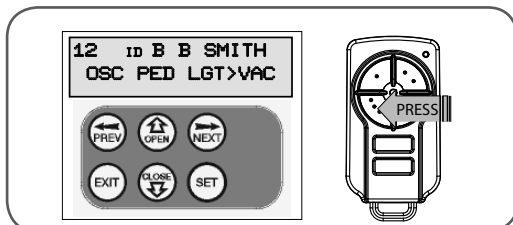


fig 50

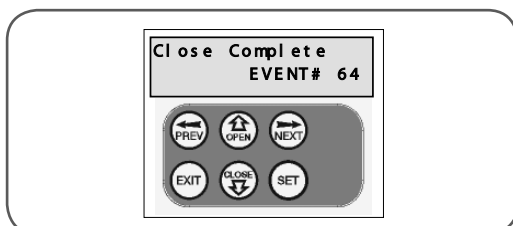
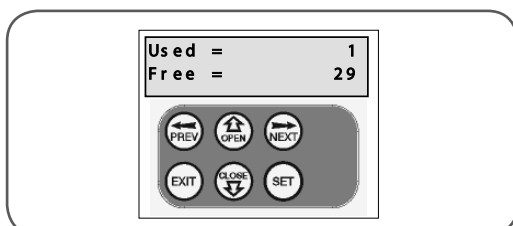


fig 51



The controller provides several diagnostic tools from within the diagnostics menu (menu 8). This section details the function of each tool and its use.

Navigating to diagnostics menu

1. Press PREV to navigate to Menu 8 (**Fig. 46**).
2. Press SET to display menu of available functions.
3. Press PREV or NEXT to cycle through to the diagnostic tool.
4. Press SET to select.

Menu 8.1 Test inputs

This tool is used to view the state of the control inputs. When selected, a screen is displayed (**Fig. 47**) which indicates the state of each input. If the name of the input is in uppercase, then the input is active. Conversely if the input is in lower case, then the input is inactive. For normal operation, all inputs should be inactive. When finished press EXIT. The example shows the status of OSC input is active.

Menu 8.2 Test tx'ers

This tool is used to test receiver/transmitter functionality. When selected, a screen is displayed which prompts for a transmitter button to be pressed (**Fig. 48**) and whether ID or serial numbers are to be displayed.

The opener will then beep each time a transmission is received. If the transmitter button is stored in the controller memory and has a function assigned to it, a second screen will be displayed that shows the transmitter details along with the button pressed (**Fig. 49**). The example shows the case when transmitter number 12 is activated by button 4. Note ID is selected for display.

Menu 8.3 Display history

The opener keeps a record of the last 64 events that have taken place. The events include the type of drive cycles executed, obstruction detection, various faults, power failures etc. When this tool is selected, the screen displays the last event that occurred (**Fig. 50**). Press NEXT or PREV to view each event. The "EVENT#" field shows the sequence of the events, with (1) being the first and (64) being the last. The example shows that the last event was a close cycle which succeeded in closing the gate. When finished viewing the events, press EXIT.

Menu 8.4 Memory usage

This tool displays the number of transmitter store locations used and the number free (**Fig. 51**).



Menu 8.5 Service counter

The opener provides a periodic service counter which can be set to expire after a number of drive cycles. When expired, the opener will beep at the beginning of each drive cycle and a message will be displayed on the MAIN SCREEN (**Fig. 52**). This tool displays the current value of the service counter and allows the user to set the value using the normal parameter editing techniques (See PARAMETER VIEWING AND EDITING). The service counter is set at (60,000) from the factory.

Menu 8.6 Counters

The opener keeps a count of number of times a particular event occurs. The list of event counters kept is shown below. When this tool is selected the first event counter is shown (**Fig. 53**). Press NEXT or PREV to step through the list. The example below shows the OPEN CYCLE event counter with a value of 1234. When finished viewing press EXIT.

- 1: Open Cycles
- 2: Close Cycles
- 3: Ped Cycles
- 4: Setup Limits
- 5: Comm's Loss
- 6: Sync Faults
- 7: Overlaps
- 8: M1 Open Stall
- 9: M1 Close Stall
- 10: M1 Open Obstructions
- 11: M1 Close Obstructions
- 12: M1 Open Overloads
- 13: M1 Close Overloads
- 14: M1 PWM Sync Faults
- 15: M1 PWM Drive Faults
- 16: M1 Direction Faults
- 17: M1 Sensor Faults

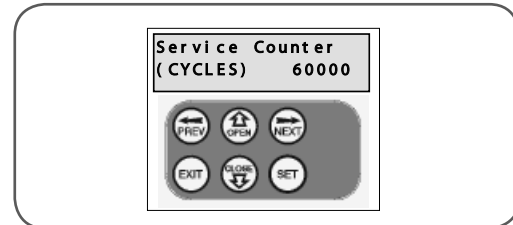


fig 52

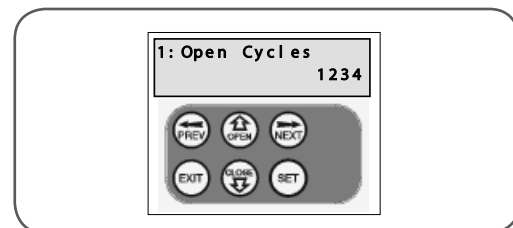


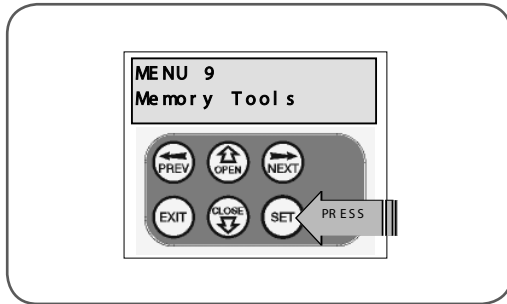
fig 53





Memory Tools

fig 54



The Memory Tools accessed from within Menu 9 are used to clear the memory of the controller. Once selected, the PREV or NEXT buttons can be used to view the Memory Tool options. To execute the displayed option simply press SET.

Menu 9.1 Clr control

This option will clear the gate control memory and reload the factory set defaults for parameters such as the lock time, light time, Auto-Close times etc. It will also clear the travel limits.

Menu 9.2 Clr tx'ers

This option will clear the transmitter storage memory.



Accessories Installation

Photo Electric (PE) Beams

A photo electric (PE) Beams extends across the gate opening. This photo electric (PE) Beams is designed to detect an obstruction while the gate is closing and to send a signal to the gate opener to reverse or stop the gate movement.

Fitting the PE Beams (optional)

- Affix the PE Beams in a strategic location within the gateway. We recommend 150mm above the floor level and as close as possible to the gate opening.
- Connect the wires from the PE Beams wiring harness to terminal block (**Fig. 55**). The wiring diagram is for Model PE-2000TS (Order Code 61903).
- Make sure that you are using the correct resistor i.e. 5k6 ohms (Green Blue Red Gold) and connecting to number 2 (two) and 4 (four) terminal on the PE-2000TS receiver. Make sure to align the beams correctly. Follow the manual supplied with the PE Beams.

Alignment

- Power up the PE Beams. The green LED on the transmitter and red LED on the receiver should turn ON to indicate power is present.
- If the receiver is connected to power and the red LED is on while the green LED is on, the transmitter and receiver are not aligned.
- Make horizontal and/or vertical adjustment on the transmitter and/or receiver until the red LED turns off on the receiver, indicating alignment.



WARNING: When using PE Beams, the gateway must be clear of all obstructions and persons at all times. The location of the beams and manner in which it is installed might not give safety protection at all times. Check to make sure that the height of the beam and type used give the maximum protection possible.



WARNING: Install the PE Beams as per diagram in (**Fig. 55**). **Tampering with** PE Beams could result in serious personal injury and/or property damage and will void the warranty.

Fitting solenoid or magnetic locks

Install the lock mechanism on the gate as per the manufacturers instructions. The wiring diagram at right is a representation of a typical lock with a bias for normally closed contact (**Fig. 56**).

Fitting courtesy lights

An AC or DC courtesy light can be activated via an output on the gate opener control board. Connect the light as per the diagram at right (**Fig. 57**).

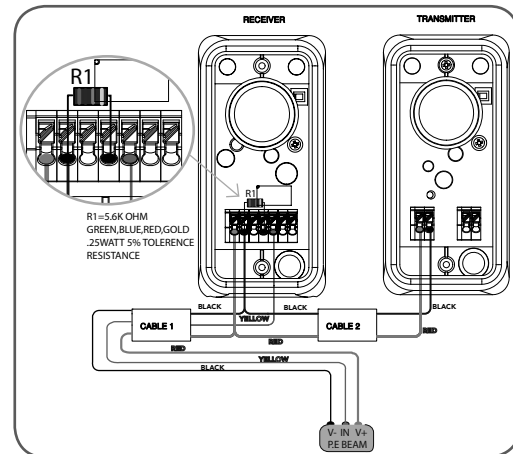


fig 55

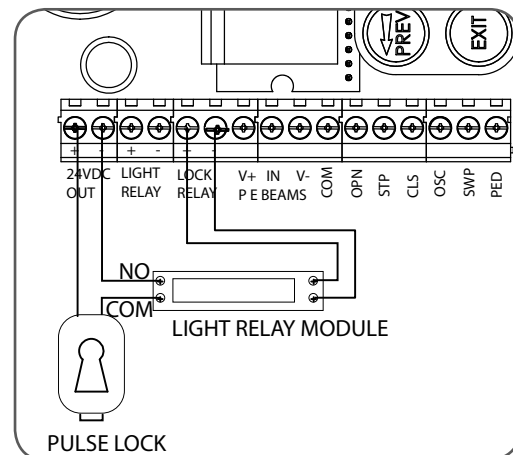


fig 56

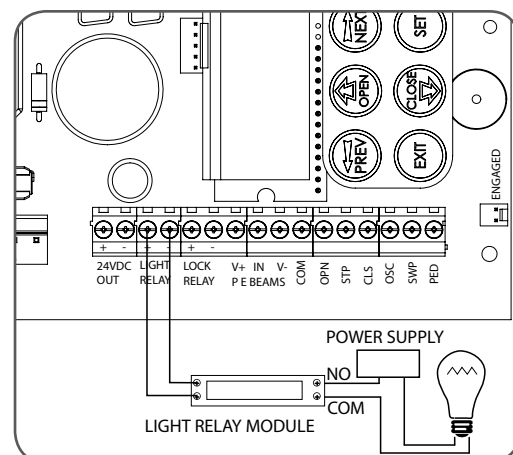


fig 57



Troubleshooting Guide

Symptom	Possible cause	Remedy
Gate will not operate	Mains power not switched on Gate is obstructed Gate is locked or motor jammed Gate tracks/hardware damaged	Switch on mains power Remove obstruction Unlock door or remove jam Door requires service/repair by qualified technician
Gate starts to close but automatically reverses to open position	Adverse weather conditions (wind or cold) causing gate to stiffen and become tight in the tracks Possible obstruction in the gateway	Increase obstruction margin setting. See page 20 Remove obstruction
Gate does not operate from transmitter *See note	Transmitter code not stored in memory Flat battery - LED flashes	Code transmitter in to openers memory. Refer to page 24 Replace battery - CR2032
Gate will not close fully	Gate limits position need to be reset	Reset limits positions. See Page 16-17
Gate will not open fully	Gate limits position need to be reset	Reset limits positions. See Page 16-17
Opener beeping and gate does not move	Disengagement lever opening Disengage connector not plugged in	Close disengage lever and lock in place Plug connector into J10 socket on board
Auto-Close not working	PE Beam or wiring faulty PE Beam not aligned correctly PE Beam is obstructed Gate obstructed when closing Auto-Close time not set Auto-Close mode not set	Repair PE Beam or replace wiring Re-align optics Remove obstruction from the path of PE Remove obstruction See page 20 See page 20

PLEASE NOTE:

Some areas may be prone to excessive radio interference brought on by devices such as cordless telephones, wireless stereo headphones and baby monitors. It is possible that these devices could cause a degree of interference such as to greatly reduce the range of the transmitter. In such an instance please contact your Automatic Technology dealer for an alternative frequency replacement kit. As this is not a warrantable situation but an environmental issue, charges may apply for the changeover.



Specifications

Technical Specifications

Protection rating:	IP33
Input voltage:	230V - 240V AC 50Hz
Transformer primary voltage:	230V/240VAC
Secondary voltage:	24V AC 150 VA
Controller voltage:	24V DC
Motor type:	Permanent Magnet Direct Current
Motor voltage:	24V DC
Maximum pulling force:	200N
Maximum gate opening: ¹	Width: 10m Weight: 250kg
Opener maximum Opening/closing run time:	30 seconds
Receiver type:	TrioCode™ OR Tri-Tran™
Receiver code storage capacity:	30 x 4 Button Transmitter Codes
Transmitter frequency:	433.47, 433.92, 434.37 MHz
Coding type:	Hopping Code
No. of code combinations:	Over 4.29 billion random codes
Code generation:	Non-linear encryption algorithm
Transmitter battery:	CR2032

NOTE:

1. The maximum gate size that the NeoSlider™ can be installed on is 10m wide and 250kg. The gate must be well balanced. A person should be able to move the gate manually with very little effort (15kg force max.) in case of an emergency.
2. The first memory location sets the type of transmitters which can be stored into the receivers memory. It can be either Automatic Technology TrioCode™ or B&D Tri-Tran™ transmitters.
3. Intermittent operations may occur in areas which experience very strong wind gusts. A strong wind puts extra pressure on the gate and tracks which may in turn trigger the safety obstruction detection system intermittently.

NOTE: Specifications are subject to change without notice.

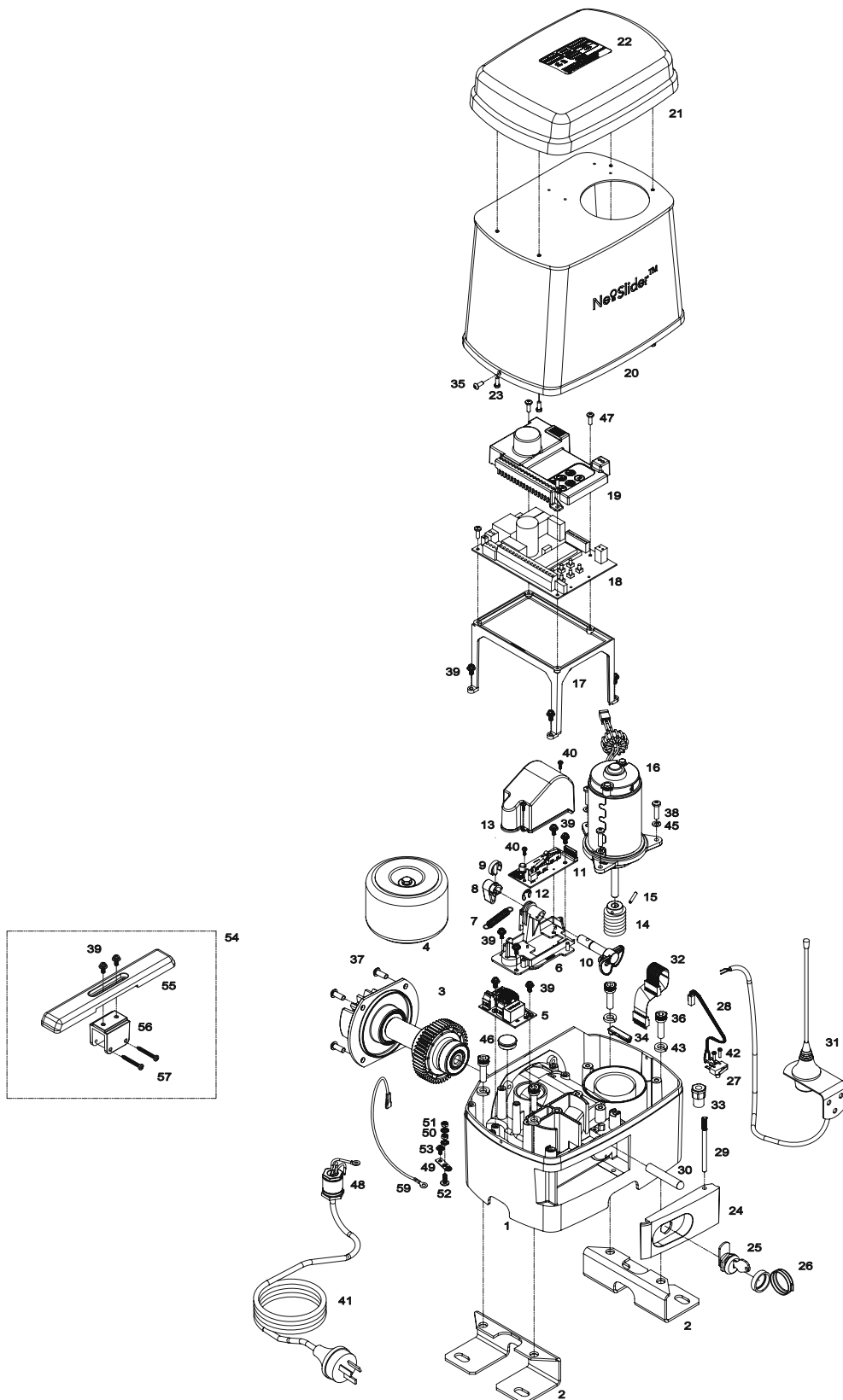




Parts List

When ordering spare parts please quote the order code number to your installer/dealer.

Item/description	order code		
1. Base	62400	41. Power cord 1.5m W2PIN + 1R	14150
2. Mounting bracket ext	62502	42. Pan head screw M2.5 x 10	10375
3. Drive train ASSY V4	61882	43. Spring washer I.D 8	10950
4. Transformer TDB-150-08 kit	62025	44. Cable tie 4" GT-100M	14160
5. EMC filter board EMC-3.02	61447	45. Spring washer I.D 5	10970
6. Timing platform CG8C	63229	46. Plug - dia 21 hole	11881
7. Ext. spring 8.2 x 41	15681	47. Taptite screw 'P' M4 x 12	10569
8. Actuating Arm CG8C	15346	48. Nylon gland M16-07B	65621
9. Chopper clip	64960	49. Earth terminal	65695
10. CAM limit ASSY	61702	50. Int tooth lock washer I.D 4	11140
11. Quad QMS-1.02 board	61673	51. Hex nut M4	10890
12. E circlip D1500 0070	10815	52. Seration head screw M4 x 12	10380
13. Dust cover	63224	53. Pan head screw w/washer M4 x 8	10320
14. Worm 2315	64934	54. Accessory actuator pack ESV	61463
15. Sel-lock pin spring ACP M3 x 20	62576	55. Actuator block	15343
16. DC motor 11_V4 ASSY	60383	56. Actuator mounting block	15344
17. PCB support	62430	57. Taptite screw 'P' M4 x 30	10565
18. Control board DCB02-2.00	60925	58. Wire earth ASSY	12150
19. PCB cover ASSY ESV24/240 master	62490		
20. Cover CG8C SP	62462		
21. Top cover CG8C	62471		
22. NeoSlider™ label	13578		
23. Taptite screw 'P' M4 x 10	10570		
24. Door	62420		
25. Locks-key	64620		
26. Top and bottom lock cap	15220		
27. Microswitch ABS 111454	69261		
28. M/SW harness ESV24/240	12240		
29. Hinge pin	62560		
30. Rod disengagement	62565		
31. Antenna 433MHz L=1.95m coax cable	61972		
32. Q-G 301 harness ASSY	61795		
33. Gland MGB12-07B-ST-XA	65623		
34. Plug - 8 x 32	11885		
35. Button head screw ZnCROM M4 x 10	10027		
36. Cap head screw M8 x 25	10070		
37. Button head screw S.S M6 x 16	10023		
38. Pan head screw ZnCROM M5 x 16	10474		
39. Pan head screw w/washer M4 x 10	10340		
40. Taptite screw 'P' M3 x 8	10560		





Warranty and Exclusion of Liability

1. This Warranty is given by Automatic Technology (Australia) Pty Ltd (ABN 11 007 125 368) (ATA), 6-8 Fiveways Boulevard, Keysborough 3173, 1300 133 944, sales@ata-aust.com.au
 2. The Competition and Consumer Act 2010 (including the Australian Consumer Law) and other relevant statutes provide a set of statutory consumer guarantees and other legal rights that cannot be excluded, restricted or modified by contract. This Warranty is in addition to and does not affect any of your rights under the Australian Consumer Law and other relevant statutes.
 3. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation of any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
 4. Subject to your non-excludable rights under the Australian Consumer Law, ATA expressly excludes any liability for consequential loss, incidental or indirect damages (including but not limited to damages for loss of business profits, business interruption and loss of business information) due to a defect of the NES-24 NeoSlider™ (Product). In particular any loss or damage caused to other equipment or accessories used with the product or any loss resulting from a delay in repair is excluded to extent permitted by law.
 5. Subject to all of the matters set out below, ATA warrants in relation to the Product that:
 - (a) the Product's drive units will be free of any defects in material and workmanship for at least 12 months after the date of purchase (as evidenced by the sales docket receipt), or 2,500 cycles, whichever ever occurs first; and
 - (b) the Product's other components and accessories will be free of any defects in material and workmanship for at least 12 months after the date of purchase (as evidenced by the sales docket receipt).
 6. No additional warranty will apply for Products repaired during the relevant warranty period.
 7. For all Products repaired outside the warranty period, a six (6) month warranty that the Product will be free of any defects in material and workmanship will apply from the date of dispatch of the Product to you. ATA may charge you for any repairs undertaken outside the warranty period, and will provide you with a quotation in relation to any such costs for your approval before proceeding with any repairs.
 8. This Warranty applies only where you:
 - (a) immediately notify ATA at the contact details provided in paragraph 1 above or notify the or the retailer that you purchased the Product from of the alleged defect;
 - (b) return the product to the retailer that you purchased the Product from; and
 - (c) present the relevant sales docket and this Warranty document to the retailer to confirm the date of purchase.
 9. Except for this Warranty, ATA gives no warranties of any kind whatsoever (whether express or implied), in relation to the product, and, subject to paragraph 1 above, all warranties of whatsoever kind relating to the product are hereby excluded.
 10. This Warranty excludes damage resulting from:
 - (a) normal wear and tear;
 - (b) accidental damage;
 - (c) incorrect installation of the Product;
 - (d) blown fuses, electrical surges, power surges or power spikes;
 - (e) theft, fire, flood, rain, water, lightning, storms or any other acts of God;
 - (f) any installation, configuration or use of the Product contrary to the instructions supplied with the Product;
 - (g) maximum continuous operating time exceeding 1 minute in 10;
 - (h) the operating force exceeding 15kg* (150 Newton) when moving the door or gate manually to the open or closed position;
 - (i) residential gate weight exceeding 250kg;
 - (j) the gate used with the Product not being in safe working order and condition;
 - (k) repairs which are not authorised by ATA;
 - (l) any failure to install or maintain the Product in accordance with the instructions supplied with the Product;
 - (m) any use which is not in accordance with the instructions provided with the Product;
 - (n) deliberate or negligent damage to the Product;
 - (o) any unauthorised modification to the Product;
 - (p) faulty or unsuitable wiring in the building in which the Product is installed;
 - (q) damage caused by insects;
 - (r) any cost or expense relating to the recall of the Product;
 - (s) installation of a residential gate opener in a commercial or industrial situation or in a dwelling other than a single-family dwelling;
 - (t) radio or electrical interference; or
 - (u) acts or omissions of any person (including service providers approved by ATA) other than ATA.
 11. ATA's liability under this Warranty is limited, at ATA's absolute option, to replacing or repairing the product which ATA, in its unfettered opinion, considers to be defective either in material and/or workmanship or to credit the dealer with the price at which the product was purchased by the dealer.
 12. This Warranty does not extend to cover labour for installation of the Product following repairs, the cost of which must be borne by you.
 13. This Warranty is limited to Return-to-Base (RTB) repair and does not cover labour for on-site attendance, the cost of which must be borne by you.
 14. Except as specified in this Warranty, ATA will not charge you for any repairs or replacements conducted under the Warranty. However, ATA will charge you for any repairs which are not within the scope of this Warranty (or which are not required to be undertaken free of charge pursuant to the Australian Consumer Law).
 15. This Warranty is void if the Product is not returned to the manufacturer in original or suitably secure packaging.
 16. This Warranty is only applicable for repairs to the product carried out within Australia.
 17. This Warranty does not cover consumable items including, without limitation, globes, batteries and fuses.
 18. This Warranty is not transferable.
 19. Where the Product is retailed by any person other than ATA, except for the warranty set out above, such person has no authority from ATA to give any warranty or guarantee on ATA's behalf in addition to the warranty set out above.
 20. Any provision of this Warranty that is prohibited or unenforceable in any jurisdiction is ineffective as to that jurisdiction to the extent of the prohibition or unenforceability. That does not invalidate the remaining provisions of this Warranty nor affect the validity or enforceability of that provision in any other jurisdiction.
 21. Products presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the Product.
- NOTES:
1. One (1) cycle = one (1) open and one (1) close action of the door or gate.
 2. This Warranty is to be read in conjunction with the owner's copy of the installation instruction manual.
 3. * The door or gate that the Product is used with should be balanced in such a way that the user is able to open or close the door or gate manually using a force not greater than 150 Newton (15 kg), other than to initially cause the door or gate to start moving, which may require force in excess of that specified in this paragraph.





Notes And Record

Purchased from:	Phone:
Installed by:	Date:
Serial No:	





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automatic
TECHNOLOGY

smart | simple | secure

an alesco company

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